USSN: 10/643,683

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

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## Listing of Claims:

1. (currently amended) A method for synthesis of polypeptides or polynucleotides in vitro transcription of mRNA and/or translation of polypeptides, the method comprising:

synthesizing polypoptides said mRNA and/or polynucleotides polypoptides in a transcription and/or translation reaction mix substantially free of polyethylene glycol, comprising:

an extract from bacterial cells <u>comprising membrane vesicles containing respiratory</u> chain components; components of polypeptide and/or mRNA synthesis machinery; a template for transcription of said mRNA and/or translation of said polypeptide; monomers for synthesis of said mRNA and/or polypeptides; and co-factors, enzymes and other reagents necessary for said transcription and/or translation;

magnesium at a concentration of from about 5 mM to about 20 mM;

the absence of an exogenous high energy phosphate source;

wherein oxidative phosphorylation, which is sensitive to electron transport chain inhibitors, is activated in said reaction mix.

## 2-3. (canceled)

- 4. (currently amended) The method of Claim 1, wherein <u>transcription of mRNA and/or</u> <u>translation of polypeptides</u> <u>synthesis of said polypeptides or polynucleotides</u> is at least two fold higher than synthesis in the absence of said oxidative phosphorylation.
- 5. (currently amended) The method according to Claim 1, wherein <u>transcription of mRNA and/or translation of polypeptides</u> synthesis of said polypeptides or polynucleotides is at least three fold higher than synthesis in the absence of said oxidative phosphorylation.
- 6. (currently amended) The method of Claim 1 wherein said <u>transcription of mRNA</u> and/or translation of polypeptides synthesis of polypeptides or polynucleotides is performed as a batch reaction.